Nuclear Instruments and Methods in Physics Research A322 (1992) 651–660
North-Holland

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH
Section A

Author index

Abdel-Aal, R.E., A CAMAC display module for fast bit-mapped graphics A322 (1992) 78
Afanasiev, S., see Kozma, P. A322 (1992) 302
Anykeyev, V.B., A.A. Spiridonov and V.P. Zhigunov, Correcting factors method as an unfolding technique .. A322 (1992) 280
Aoyama, T., T. Sato, H. Muraki and C. Mori, Sensitive region of air proportional counters and its dependence on the pressure, temperature and humidity of filling air A322 (1992) 170
Arlt, R., K.-H. Czock and D.E. Rundquist, Overview of the use of CdTe detectors for the verification of nuclear material in nuclear safeguards A322 (1992) 575
Asami, A., see Yamazaki, Y. A322 (1992) 139

Baldazzi, G., see Caroli, E. A322 (1992) 639
Baldazzi, G., D. Bollini, E. Caroli, F. Casali, P. Chirco, G. Di Cocco, A. Donati, W. Dusi, G. Landini, G. Malaguti, M. Rossi and J.B. Stephen, An evaluation of the possible use of CdTe microdetectors for astrophysical, biomedical and industrial imaging A322 (1992) 644
Bao, X.J., see Schlesinger, T.E. A322 (1992) 414
Bao, X.J., see James, R.B. A322 (1992) 435
Barish, B.C., see Levin, D.S. A322 (1992) 101
Baryshevsky, V.G., M.V. Korzhik, V.I. Moroz, V.B. Pavlenko, A.S. Lobko, A.A. Fyodorov, V.A. Kachanov, V.L. Solovjanov, B.I. Zadneprovsky, V.A. Nefyodov, P.V. Nefyodov, B.A. Dorogovin and L.L. Nagornaja, Single crystals of tungsten compounds as promising materials for the total absorption detectors of the e.m. calorimeters A322 (1992) 231
Beaumont, S.P., R. Bertin, C.N. Booth, C. Buttar, L. Carraresi, F. Cindolo, M. Colocci, F.H. Combley, S. D'Auria, C. del Papa, M. Dogru, M. Edwards, F. Fiori, F. Foster, A. Francescato, A, Habig,Y. Hou, P. Houston, B. Jones, J.G. Lynch, B. Lisowski, J. Matheson, F. Nava, M. Nuti, V. O'Shea, P.G. Pelfer, C. Raine, J. Santana, I. Saunders, P.H. Seller, P.H. Sharp, I.O. Skillikorn, T. Sloan, K.M. Smith, N. Tartoni, I. ten Have, R.M. Turnbull, A. Vinattieri and A. Zichichi, GaAs solid state detectors for particle physics ... A322 (1992) 472
Beaumont, S.P., see Sumner, T.J. A322 (1992) 514
Belas, E., see Höschl, P. A322 (1992) 371
Bencivelli, W., see Conti, M. A322 (1992) 591
Benz, K.W., R. Irsigler, J. Ludwig, J. Rosenzweig, K. Runge, F. Schäfer, J. Schneider and M. Webel, X-ray detectors based on semi-insulating GaAs substrate A322 (1992) 493
Bertin, R., see Beaumont, S.P. A322 (1992) 472
Bertolucci, E., see Conti, M. A322 (1992) 591
Bertuccio, G., E. Gatti, M. Sampietro, P. Rehak and S. Rescia, Sampling and optimum data processing of detector signals A322 (1992) 271
Bertuccio, G., M. Sampietro and A. Fazzi, High resolution X-ray spectroscopy with silicon drift detectors and integrated electronics A322 (1992) 538
Bewick, A., see Sumner, T.J. A322 (1992) 514
Blatchley, C.C., see Harihar, P. A322 (1992) 40
Blunier, S., see Tiwari, A.N. A322 (1992) 352
Bohne, W., see Pausch, G. A322 (1992) 43
Bollini, D., see Baldazzi, G. A322 (1992) 644
Booth, C.N., see Beaumont, S.P. A322 (1992) 472
Bottigli, U., see Conti, M. A322 (1992) 591
Brake, R., see McGregor, D.S. A322 (1992) 487
Brendle, M. and G. Lude, An advanced preprocessor for multiparameter experiments (*Letter to the Editor*) .. A322 (1992) 307
Britvich, G.I., see Buzulutskov, A.F. A322 (1992) 235
Burger, A., S.H. Morgan, E. Silberman, D. Nason and A.Y. Cheng, A review of recent measurements of optical and thermal properties of α-mercuric iodide A322 (1992) 427
Buttar, C., see Beaumont, S.P. A322 (1992) 472
Buzulutskov, A.F., G.I. Britvich, V.I. Kochetkov, M.V. Mityagin, L.L. Vistin and I.P. Zibrov, Study of the $KMgF_3$ scintillator radiation damage A322 (1992) 235
Byard, K., On self-supporting coded aperture arrays A322 (1992) 97

0168-9002/92/$05.00 © 1992 – Elsevier Science Publishers B.V. All rights reserved

Cafi, C., see Finocchiaro, P. A322 (1992) 263
Campbell, A.B., see Harihar, P. A322 (1992) 40
Carelli, P., see Leoni, R. A322 (1992) 258
Caroli, E., G. Baldazzi, G. Di Cocco, A. Donati, W. Dusi, G. Malaguti, M. Rossi and J.B. Stephen, A CdTe gamma-ray spectrometer with imaging capabilities for astrophysics: Monte Carlo simulation results A322 (1992) 639
Caroli, E., see Baldazzi, G. A322 (1992) 644
Carraresi, L., see Beaumont, S.P. A322 (1992) 472
Casali, F., see Baldazzi, G. A322 (1992) 644
Castellano, M.G., see Leoni, R. A322 (1992) 258
Cesareo, R., G.E. Gigante, J.S. Iwanczyk and A. Dabrowski, The use of a mercuric iodide detector for X-ray fluorescence analysis in archaeometry A322 (1992) 583
Chambron, J., see Scheiber, C. A322 (1992) 604
Chang Jin, see Xu Zizong A322 (1992) 239
Cheng, A.Y., see Schlesinger, T.E. A322 (1992) 414
Cheng, A.Y., see Burger, A. A322 (1992) 427
Cheng, A.Y., see James, R.B. A322 (1992) 435
Chiba, M., see Takasaki, F. A322 (1992) 211
Chirco, P., see Baldazzi, G. A322 (1992) 644
Cindolo, F., see Beaumont, S.P. A322 (1992) 472
Cirignano, L., see Zhang, J. A322 (1992) 499
Cirillo, M., see Leoni, R. A322 (1992) 258
Colocci, M., see Beaumont, S.P. A322 (1992) 472
Combley, F.H., see Beaumont, S.P. A322 (1992) 472
Conti, M., A. Del Guerra, D. Mazzei, P. Russo, W. Bencivelli, E. Bertolucci, A. Messineo, V. Rosso, A. Stefanini, U. Bottigli, P. Randaccio and W.R. Nelson, Use of the EGS4 Monte Carlo code to evaluate the response of HgI_2 and CdTe detectors for photons in the diagnostic energy range A322 (1992) 591
Cross, E., see James, K. A322 (1992) 390
Cushman, P., see Mélèse, P. A322 (1992) 189
Cutchin, J., see Harihar, P. A322 (1992) 40
Cuzin, M., CdTe in photoconductive applications. Fast detector for metrology and X-ray imaging A322 (1992) 341
Cuzin, M., see Verger, L. A322 (1992) 357
Cuzin, M., see Mathy, F. A322 (1992) 615
Cuzin, M., see Glasser, F. A322 (1992) 619
Czock, K.-H., see Arlt, R. A322 (1992) 575

D'Ambrosio, C., T. Gys, H. Leutz, U. Gensch and S. Schlenstedt, Optimization of central particle tracking at future hadron colliders A322 (1992) 20
D'Auria, S., see Beaumont, S.P. A322 (1992) 472
Dabrowski, A., see Cesareo, R. A322 (1992) 583
Daley, K., see Zhang, J. A322 (1992) 499
Daley, K., see Olschner, F. A322 (1992) 504
Del Guerra, A., see Conti, M. A322 (1992) 591
del Papa, C., see Beaumont, S.P. A322 (1992) 472
Di Cocco, G., see Caroli, E. A322 (1992) 639
Di Cocco, G., see Baldazzi, G. A322 (1992) 644
Diehl, E., see Levin, D.S. A322 (1992) 101
Dodge, G.E., see Kuhn, S.E. A322 (1992) 88
Dogru, M., see Beaumont, S.P. A322 (1992) 472
Doke, T., see Ichinose, H. A322 (1992) 216
Donati, A., see Caroli, E. A322 (1992) 639
Donati, A., see Baldazzi, G. A322 (1992) 644
Dorogovin, B.A., see Baryshevsky, V.G. A322 (1992) 231
Düren, M., Z. Moroz, M. Veltri, K. Zapfe, H. Mairon, M. Metzger, B. Povh, K. Rith, E. Steffens, F. Stock, D. Toporkov, F. Zetsche, T.-A. Shibata, D. Fick, W. Korsch, G. Graw, W. Haeberli and G.T. Garvey, Test of a polarized hydrogen gas target based on the storage cell technique A322 (1992) 13
Dusi, W., see Caroli, E. A322 (1992) 639
Dusi, W., see Baldazzi, G. A322 (1992) 644

Economou, T.E., J.S. Iwanczyk and R. Rieder, A HgI_2 X-ray instrument for the Soviet Mars '94 mission A322 (1992) 633
Edwards, M., see Beaumont, S.P. A322 (1992) 472
Eisen, Y., see McGregor, D.S. A322 (1992) 487

Eisen, Y., Current state-of-the-art applications utilizing CdTe detectors A322 (1992) 596
Ejiri, H., see Kudomi, N. A322 (1992) 53
Elmer, P., see Roberts, A.D. A322 (1992) 6
Entine, G., see Squillante, M.R. A322 (1992) 569
Entine, G., see Nagarkar, V. A322 (1992) 623
Equer, B., Thin-film semiconductors: new materials for future detectors A322 (1992) 457

Faccio, F., see Manfredotti, C. A322 (1992) 483
Fazzi, A., see Bertuccio, G. A322 (1992) 538
Feng, E., see Liu, G. A322 (1992) 243
Fick, D., see Düren, M. A322 (1992) 13
Finocchiaro, P. and C. Cafì, A compact ECL system for fast data readout and event building in a multidetector environment A322 (1992) 263
Fiori, F., see Beaumont, S.P. A322 (1992) 472
Fizzotti, F., see Manfredotti, C. A322 (1992) 483
Foster, F., see Beaumont, S.P. A322 (1992) 472
Franc, J., see Höschl, P. A322 (1992) 371
Francescato, A., see Beaumont, S.P. A322 (1992) 472
Fuchs, H., see Pausch, G. A322 (1992) 43
Fukui, T., see Takasaki, F. A322 (1992) 211
Funaki, M., see Iwase, Y. A322 (1992) 628
Fyodorov, A.A., see Baryshevsky, V.G. A322 (1992) 231

Gagelin, J.J., see Mathy, F. A322 (1992) 615
Garcia-Belmonte, G., see Olmos, P. A322 (1992) 557
Garis, N.S., see Hoek, M. A322 (1992) 248
Garvey, G.T., see Düren, M. A322 (1992) 13
Gatti, E., see Bertuccio, G. A322 (1992) 271
Gaude, G., see Verger, L. A322 (1992) 357
Gensch, U., see D'Ambrosio, C. A322 (1992) 20
Gerrish, V., see James, K. A322 (1992) 390
Gerrish, V., Polarization and gain in mercuric iodide gamma-ray spectrometers A322 (1992) 402
Gigante, G.E., see Cesareo, R. A322 (1992) 583
Gill, K., G. Hall, S. Roe, S. Sotthibandhu, R. Wheadon, P. Giubellino and L. Ramello, Radiation damage by neutrons and photons to silicon detectors A322 (1992) 177
Giubellino, P., see Gill, K. A322 (1992) 177
Glasser, F., see Verger, L. A322 (1992) 357
Glasser, F., G. Thomas, M. Cuzin and L. Verger, Application of cadmium telluride detectors to high energy computed tomography A322 (1992) 619
Gong Zhufang, see Xu Zizong A322 (1992) 239
Gospodinov, M.M., see Milenov, T.I. A322 (1992) 363
Gospodinov, M.M., see Milenov, T.I. A322 (1992) 368
Gostilo, V.V., Low-noise electronics for semiconductor detectors A322 (1992) 566
Grant, S.M., see Sumner, T.J. A322 (1992) 514
Grassi, D., Z. Hu, F. Murolo, E. Perillo, E. Rosato, G. Spadaccini and M. Vigilante, Preliminary tests on a HgI_2 microstrip detector with analog readout proposed as PSD in a Bragg X-ray spectrometer A322 (1992) 449
Graw, G., see Düren, M. A322 (1992) 13
Grill, R., see Höschl, P. A322 (1992) 371
Grosshög, G., see Hoek, M. A322 (1992) 248
Guo, Z., see Liu, G. A322 (1992) 243
Gys, T., see D'Ambrosio, C. A322 (1992) 20

Habig, A., see Levin, D.S. A322 (1992) 101
Haeberli, W., see Roberts, A.D. A322 (1992) 6
Haeberli, W., see Düren, M. A322 (1992) 13
Hage-Ali, M. and P. Siffert, Status of semi-insulating cadmium telluride for nuclear radiation detectors A322 (1992) 313
Hage-Ali, M., see Mergui, S. A322 (1992) 375
Hage-Ali, M., see Mergui, S. A322 (1992) 381
Hahn, B., see Streubel, G. A322 (1992) 57
Hall, G., see Gill, K. A322 (1992) 177
Handel, J., see Levin, D.S. A322 (1992) 101

Harada, H., H. Takahashi, K. Konashi and N. Sasao, Incineration of ^{90}Sr and ^{137}Cs by an inertial fusion target A322 (1992) 286
Harihar, P., W.J. Stapor, A.B. Campbell, A.R. Knudson, J. Cutchin and C.C. Blatchley, Nuclear spectroscopy using risetimes in cerussite scintillator A322 (1992) 40
Hauducoeur, A., see Mathy, F. A322 (1992) 615
Hermon, H., M. Roth and M. Schieber, Improved technique for HgI_2 crystal growth A322 (1992) 432
Hermon, H., M. Roth and M. Schieber, Electrical charge transport properties of HgI_2 intercalated with hydrocarbons and/or doped with excess mercury and iodine A322 (1992) 442
Hilscher, D., see Pausch, G. A322 (1992) 43
Hiramoto, K. and M. Nishi, Resonant beam extraction scheme with constant separatrix A322 (1992) 154
Hiratate, Y., see Shoji, T. A322 (1992) 324
Hirose, T., see Takasaki, F. A322 (1992) 211
Hitachi, A., see Ichinose, H. A322 (1992) 216
Hoek, M., N.S. Garis and G. Grosshög, Simulation of the neutron and proton transport in the 14 MeV neutron time-of-flight spectrometer, TANSY A322 (1992) 248
Homeyer, H., see Pausch, G. A322 (1992) 43
Höschl, P., P. Moravec, J. Franc, E. Belas and R. Grill, Defect equilibrium in semi-insulating CdTe(Cl) A322 (1992) 371
Hosoda, N., see Takasaki, F. A322 (1992) 211
Hou, Y., see Beaumont, S.P. A322 (1992) 472
Houston, P., see Beaumont, S.P. A322 (1992) 472
Hu, X., see Liu, G. A322 (1992) 243
Hu, Z., see Grassi, D. A322 (1992) 449
Hyvernage, M., see Mathy, F. A322 (1992) 615

Ichinose, H., T. Doke, A. Hitachi, J. Kikuchi, K. Masuda and E. Shibamura, Energy resolution for gamma-rays and electrons from ^{207}Bi in liquid Xe doped with TEA A322 (1992) 216
Irsigler, R., see Benz, K.W. A322 (1992) 493
Iwanczyk, J.S., W.F. Schnepple and M.J. Masterson, The effect of charge trapping on the spectrometric performance of HgI_2 gamma-ray detectors A322 (1992) 421
Iwanczyk, J.S., Low noise, low power, miniaturized processing electronics for X-ray detectors A322 (1992) 543
Iwanczyk, J.S., see Cesareo, R. A322 (1992) 583
Iwanczyk, J.S., see Economou, T.E. A322 (1992) 633
Iwase, Y., M. Funaki, A. Onozuka and M. Ohmori, A 90 element CdTe array detector A322 (1992) 628

James, K., V. Gerrish, E. Cross, J. Markakis, J. Marschall and F. Milstein, Effect of HgI_2 crystal nonuniformities on gamma-ray response A322 (1992) 390
James, R.B., see Schlesinger, T.E. A322 (1992) 414
James, R.B., X.J. Bao, T.E. Schlesinger, A.Y. Cheng, C. Ortale and L. van den Berg, Photoluminescence investigations of defects introduced during processing of mercuric iodide nuclear detectors A322 (1992) 435
Jones, B., see Beaumont, S.P. A322 (1992) 472

Kachanov, V.A., see Baryshevsky, V.G. A322 (1992) 231
Kadner, K., see Streubel, G. A322 (1992) 57
Kalata, K., see Li, Y. A322 (1992) 116
Kaldis, E., see Piechotka, M. A322 (1992) 387
Kavadias, S., K. Misiakos, D. Loukas and E. Tsoi, On the equivalent circuit model of reverse biased diodes made on high resistivity substrates A322 (1992) 562
Kertzman, M., see Levin, D.S. A322 (1992) 101
Khusainov, A.Kh., Cadmium telluride detectors with thermoelectric cooling A322 (1992) 335
Kikuchi, J., see Ichinose, H. A322 (1992) 216
Knoll, G.F., see McGregor, D.S. A322 (1992) 487
Knudson, A.R., see Harihar, P. A322 (1992) 40
Kobayashi, H., see Yamazaki, Y. A322 (1992) 139
Kochetkov, V.I., see Buzulutskov, A.F. A322 (1992) 235
Koebel, J.M., see Mergui, S. A322 (1992) 375
Koebel, J.M., see Mergui, S. A322 (1992) 381
Konashi, K., see Harada, H. A322 (1992) 286
Korsch, W., see Düren, M. A322 (1992) 13
Korzhik, M.V., see Baryshevsky, V.G. A322 (1992) 231
Kozma, P., S. Afanasiev, A. Malakhov and A. Povtoreiko, A cerium fluoride scintillator coupled to a FEU-140 photomultiplier (*Letter to the Editor*) A322 (1992) 302

Krasnokutsky, R.N., L.L. Kurchaninov, Yu.P. Petukhov, V.V. Sushkov and R.S. Shuvalov, The signal shape of a tower-type ionization calorimeter A322 (1992) 34
Kudomi, N., T. Shima, H. Ejiri, J. Tanaka and T. Watanabe, Preparation of large and thin source films for studying nuclear rare decays A322 (1992) 53
Kuhn, S.E. and G.E. Dodge, A fast algorithm for Monte Carlo simulations of multiple Coulomb scattering .. A322 (1992) 88
Kurchaninov, L.L., see Krasnokutsky, R.N. A322 (1992) 34
Kurihara, T., see Yamazaki, Y. A322 (1992) 139

Landini, G., see Baldazzi, G. A322 (1992) 644
Le Dain, L., see Mathy, F. A322 (1992) 615
Leoni, R., M.G. Castellano, G. Schirripa Spagnolo, P. Carelli and M. Cirillo, Characterization of thin-film superconducting dot arrays for cryogenic particle detectors A322 (1992) 258
Leutz, H., see D'Ambrosio, C. A322 (1992) 20
Levin, D.S., B.C. Barish, E. Diehl, A. Habig, J. Handel, M. Kertzman, S. Mufson, J. Musser, S. Nutter, G. Sembroski and G. Tarlé, GRACE: a prototype for the Gran Sasso Air Cherenkov Experiment A322 (1992) 101
Li, J.P., see Sumner, T.J. A322 (1992) 514
Li, Y.,W.C. Phillips,M. StantonK. Kalata, Characterization of a SIT vidicon X-ray detector for crystallography A322 (1992) 116
Lisowski, B., see Beaumont, S.P. A322 (1992) 472
Liu, G., Z. Guo, W. Zhan, Y. Zhu, X. Hu, H. Xi, J. Zhou and E. Feng, BaF_2 crystal as forward angle detector in intermediate energy heavy ion reaction research A322 (1992) 243
Lobko, A.S., see Baryshevsky, V.G. A322 (1992) 231
Loukas, D., see Kavadias, S. A322 (1992) 562
Luches, A., M. Martino, V. Nassisi, A. Pecoraro and A. Perrone, Generation of self-pulsed multiple charged ions by an XeCl excimer laser A322 (1992) 166
Lude, G., see Brendle, M. A322 (1992) 307
Ludwig, J., see Benz, K.W. A322 (1992) 493
Lund, J.C., K.S. Shah, F. Olschner, J. Zhang, L. Moy, S. Medrick and M.R. Squillante, Recent progress in lead iodide X-ray spectrometer development A322 (1992) 464
Lund, J.C., see Zhang, J. A322 (1992) 499
Lund, J.C., see Olschner, F. A322 (1992) 504
Lund, J.C., see Shah, K.S. A322 (1992) 509
Lynch, J.G., see Beaumont, S.P. A322 (1992) 472

McGregor, D.S., G.F. Knoll, Y. Eisen and R. Brake, Bulk GaAs room temperature radiation detectors A322 (1992) 487
McParland, B.J. and M. Munshi, Responses of TLD-700 dosimeters shielded by various neutron absorbers in a mixed neutron/photon field (*Letter to the Editor*) A322 (1992) 308
Mairon, H., see Düren, M. A322 (1992) 13
Malaguti, G., see Caroli, E. A322 (1992) 639
Malaguti, G., see Baldazzi, G. A322 (1992) 644
Malakhov, A., see Kozma, P. A322 (1992) 302
Manfredotti, C., R. Marchisio and U. Nastasi, A simulation study of a cadmium telluride spectrometer A322 (1992) 331
Manfredotti, C., F. Faccio, F. Fizzotti and R. Marchisio, Study and realization of an amorphous silicon X-ray detector with effective energy sensitivity A322 (1992) 483
Marchisio, R., see Manfredotti, C. A322 (1992) 331
Marchisio, R., see Manfredotti, C. A322 (1992) 483
Markakis, J., see James, K. A322 (1992) 390
Marschall, J., see James, K. A322 (1992) 390
Martino, M., see Luches, A. A322 (1992) 166
Masterson, M.J., see Iwanczyk, J.S. A322 (1992) 421
Masuda, K., see Ichinose, H. A322 (1992) 216
Masuda, T., M. Tomizawa, Y. Nagashima, N. Nakamoto and Y. Tagishi, The fluorescent decay of CsI(Tl) scintillator for charged particles of different ionization density (*Letter to the Editor*) A322 (1992) 135
Matheson, J., see Beaumont, S.P. A322 (1992) 472
Mathy, F., see Verger, L. A322 (1992) 357
Mathy, F., M. Cuzin, J.J. Gagelin, R. Mermet, B. Piaget, J. Rustique, L. Verger, A. Hauducoeur, P. Nicolas, L. Le Dain and M. Hyvernage, Application of GaAs and CdTe photoconductor detectors to X-ray flash radiography A322 (1992) 615
Mazataud, D., see Nail, M. A322 (1992) 518
Mazzei, D., see Conti, M. A322 (1992) 591
Medrick, S., see Lund, J.C. A322 (1992) 464
Medrick, S., see Olschner, F. A322 (1992) 504

Mélèse, P., R. Rusack, P. Cushman and V. Singh, Electron identification and the detection of synchrotron radiation with a preshower detector A322 (1992) 189
Mergui, S., M. Hage-Ali, J.M. Koebel and P. Siffert, Thermal annealing of gold deposited contacts on high resistivity p-type CdTe nuclear detectors A322 (1992) 375
Mergui, S., M. Hage-Ali, J.M. Koebel and P. Siffert, Effect of hydrogen on high resitivity p-type CdTe A322 (1992) 381
Mermet, R., see Mathy, F. A322 (1992) 615
Messineo, A., see Conti, M. A322 (1992) 591
Metzger, M., see Düren, M. A322 (1992) 13
Michel, M., Calculation of pressure profiles in accelerators using a matrix method A322 (1992) 1
Milenov, T.I. and M.M. Gospodinov, Melt growth of CdTe crystals and investigation of their grain boundaries A322 (1992) 363
Milenov, T.I. and M.M. Gospodinov, Growth of large CdTe crystals by the Bridgman method A322 (1992) 368
Milstein, F., see James, K. A322 (1992) 390
Misiakos, K., see Kavadias, S. A322 (1992) 562
Mityagin, M.V., see Buzulutskov, A.F. A322 (1992) 235
Moravec, P., see Höschl, P. A322 (1992) 371
Morgan, S.H., see Burger, A. A322 (1992) 427
Morgenstern, H., see Pausch, G. A322 (1992) 43
Mori, C., see Aoyama, T. A322 (1992) 170
Moroz, V.I., see Baryshevsky, V.G. A322 (1992) 231
Moroz, Z., see Düren, M. A322 (1992) 13
Moy, L., see Lund, J.C. A322 (1992) 464
Moy, L.P., see Zhang, J. A322 (1992) 499
Moy, L.P., see Shah, K.S. A322 (1992) 509
Mufson, S., see Levin, D.S. A322 (1992) 101
Munshi, M., see McParland, B.J. A322 (1992) 308
Muraki, H., see Aoyama, T. A322 (1992) 170
Murolo, F., see Grassi, D. A322 (1992) 449
Musser, J., see Levin, D.S. A322 (1992) 101

Nagarkar, V., M. Squillante, G. Entine, I. Stern and D. Sharif, CdTe detectors in nuclear radiation dosimetry A322 (1992) 623
Nagashima, Y., see Masuda, T. A322 (1992) 135
Nagornaja, L.L., see Baryshevsky, V.G. A322 (1992) 231
Nail, M. and D. Mazataud, Comparison of SB2 X-ray film and reticon array A322 (1992) 518
Nakagawa, T., see Nakanishi, T. A322 (1992) 146
Nakamoto, N., see Masuda, T. A322 (1992) 135
Nakanishi, T., T. Nakagawa and H. Tanaka, Effect of beam position measurement errors on closed orbit correction in a synchrotron A322 (1992) 146
Narita, Y., see Takasaki, F. A322 (1992) 211
Nashashibi, T., The Pentafet and its applications in high resolution and high rate radiation spectrometers ... A322 (1992) 551
Nason, D., see Burger, A. A322 (1992) 427
Nassisi, V., see Luches, A. A322 (1992) 166
Nastasi, U., see Manfredotti, C. A322 (1992) 331
Nava, F., see Beaumont, S.P. A322 (1992) 472
Nefyodov, P.V., see Baryshevsky, V.G. A322 (1992) 231
Nefyodov, V.A., see Baryshevsky, V.G. A322 (1992) 231
Nelson, W.R., see Conti, M. A322 (1992) 591
Nicolas, P., see Mathy, F. A322 (1992) 615
Nishi, M., see Hiramoto, K. A322 (1992) 154
Nuti, M., see Beaumont, S.P. A322 (1992) 472
Nutter, S., see Levin, D.S. A322 (1992) 101

O'Shea, V., see Beaumont, S.P. A322 (1992) 472
Ohmori, M., see Iwase, Y. A322 (1992) 628
Olmos, P., G. Garcia-Belmonte and J.M. Perez, Large volume HgI_2 counters. A novel technique for pulse discrimination A322 (1992) 557
Olschner, F., see Lund, J.C. A322 (1992) 464
Olschner, F., see Zhang, J. A322 (1992) 499
Olschner, F., K.S. Shah, J.C. Lund, J. Zhang, K. Daley, S. Medrick and M.R. Squillante, Thallium bromide semiconductor X-ray and γ-ray detectors A322 (1992) 504
Olschner, F., see Shah, K.S. A322 (1992) 509
Onabe, H., see Shoji, T. A322 (1992) 324

Onozuka, A., see Iwase, Y. A322 (1992) 628
Ortale, C., see Schlesinger, T.E. A322 (1992) 414
Ortale, C., see James, R.B. A322 (1992) 435

Pausch, G., W. Bohne, H. Fuchs, D. Hilscher, H. Homeyer, H. Morgenstern, A. Tutay and W. Wagner, Particle identification in solid-state detectors by exploiting pulse shape information A322 (1992) 43
Pavlenko, V.B., see Baryshevsky, V.G. A322 (1992) 231
Pecoraro, A., see Luches, A. A322 (1992) 166
Pelfer, P.G., see Beaumont, S.P. A322 (1992) 472
Perez, J.M., see Olmos, P. A322 (1992) 557
Perillo, E., see Grassi, D. A322 (1992) 449
Perrone, A., see Luches, A. A322 (1992) 166
Petukhov, Yu.P., see Krasnokutsky, R.N. A322 (1992) 34
Phillips, W.C., see Li, Y. A322 (1992) 116
Piaget, B., see Mathy, F. A322 (1992) 615
Piechotka, M. and E. Kaldis, Progress in crystal growth and purification of α-HgI_2, a highly anisotropic detector crystal A322 (1992) 387
Povh, B., see Düren, M. A322 (1992) 13
Povtoreiko, A., see Kozma, P. A322 (1992) 302

Raine, C., see Beaumont, S.P. A322 (1992) 472
Ramello, L., see Gill, K. A322 (1992) 177
Randaccio, P., see Conti, M. A322 (1992) 591
Rehak, P., see Bertuccio, G. A322 (1992) 271
Reinhard, J., see Streubel, G. A322 (1992) 57
Rekveldt, M.Th. see Roest, W. A322 (1992) 65
Rescia, S., see Bertuccio, G. A322 (1992) 271
Richter, M. and P. Siffert, High resolution gamma ray spectroscopy with CdTe detector systems A322 (1992) 529
Rieder, R., see Economou, T.E. A322 (1992) 633
Rith, K., see Düren, M. A322 (1992) 13
Roberts, A.D., P. Elmer, M.A. Ross, T. Wise and W. Haeberli, Medium field rf transitions for polarized beams of hydrogen and deuterium A322 (1992) 6
Roe, S., see Gill, K. A322 (1992) 177
Roest, W. and M.Th. Rekveldt, Calibration procedure and wavelength correction for neutron depolarization experiments A322 (1992) 65
Rosato, E., see Grassi, D. A322 (1992) 449
Rosenzweig, J., see Benz, K.W. A322 (1992) 493
Ross, M.A., see Roberts, A.D. A322 (1992) 6
Rossi, M., see Caroli, E. A322 (1992) 639
Rossi, M., see Baldazzi, G. A322 (1992) 644
Rosso, V., see Conti, M. A322 (1992) 591
Roth, M., see Hermon, H. A322 (1992) 432
Roth, M., see Hermon, H. A322 (1992) 442
Rumyantsev, V.S., Dependence of hadron calorimeter energy resolution on the properties of a wavelength shifter A322 (1992) 207
Rundquist, D.E., see Arlt, R. A322 (1992) 575
Runge, K., see Benz, K.W. A322 (1992) 493
Rusack, R., see Mélèse, P. A322 (1992) 189
Russo, P., see Conti, M. A322 (1992) 591
Rustique, J., see Verger, L. A322 (1992) 357
Rustique, J., see Mathy, F. A322 (1992) 615

Saldin, E.L., E.A. Schneidmiller and M.V. Yurkov, Mode theory of FEL oscillator with the open plane Fabry–Perot resonator, helical undulator and axisymmetric electron beam A322 (1992) 293
Sampietro, M., see Bertuccio, G. A322 (1992) 271
Santana, J., see Beaumont, S.P. A322 (1992) 472
Sasao, N., see Harada, H. A322 (1992) 286
Sato, I., see Yamazaki, Y. A322 (1992) 139
Sato, T., see Aoyama, T. A322 (1992) 170
Saunders, I., see Beaumont, S.P. A322 (1992) 472
Schäfer, F., see Benz, K.W. A322 (1992) 493

Schaub, B., see Verger, L. A322 (1992) 357
Scheiber, C. and J. Chambron, CdTe detectors in medicine: a review of current applications and future perspectives A322 (1992) 604
Schieber, M., see Hermon, H. A322 (1992) 432
Schieber, M., see Hermon, H. A322 (1992) 442
Schirripa Spagnolo, G., see Leoni, R. A322 (1992) 258
Schlenstedt, S., see D'Ambrosio, C. A322 (1992) 20
Schlesinger, T.E., X.J. Bao, R.B. James, A.Y. Cheng, C. Ortale and L. van den Berg, Carrier traps and transport in mercuric iodide A322 (1992) 414
Schlesinger, T.E., see James, R.B. A322 (1992) 435
Schneider, J., see Benz, K.W. A322 (1992) 493
Schneidmiller, E.A., see Saldin, E.L. A322 (1992) 293
Schnepple, W.F., see Iwanczyk, J.S. A322 (1992) 421
Seller, P.H., see Beaumont, S.P. A322 (1992) 472
Sembroski, G., see Levin, D.S. A322 (1992) 101
Shah, K.S., see Lund, J.C. A322 (1992) 464
Shah, K.S., see Zhang, J. A322 (1992) 499
Shah, K.S., see Olschner, F. A322 (1992) 504
Shah, K.S., L.P. Moy, J. Zhang, F. Olschner, J.C. Lund and M.R. Squillante, $HgBr_xT_{2-x}$ photodetectors for use in scintillation spectroscopy A322 (1992) 509
Sharif, D., see Nagarkar, V. A322 (1992) 623
Sharp, P.H., see Beaumont, S.P. A322 (1992) 472
Sheng Dingzhong, see Xu Zizong A322 (1992) 239
Shi Caoshu, see Xu Zizong A322 (1992) 239
Shibata, T.-A., see Düren, M. A322 (1992) 13
Shima, T., see Kudomi, N. A322 (1992) 53
Shirkov, G., Fundamental processes determining the highly charged ion production in ECR ion sources A322 (1992) 161
Shoji, T., H. Onabe and Y. Hiratate, Evaluation of CdTe(Cl) crystal growth with THM and application to a multichannel detector A322 (1992) 324
Shuvalov, R.S., see Krasnokutsky, R.N. A322 (1992) 34
Siffert, P., see Hage-Ali, M. A322 (1992) 313
Siffert, P., see Mergui, S. A322 (1992) 375
Siffert, P., see Mergui, S. A322 (1992) 381
Siffert, P., see Richter, M. A322 (1992) 529
Silberman, E., see Burger, A. A322 (1992) 427
Singh, V., see Mélèse, P. A322 (1992) 189
Skillikorn, I.O., see Beaumont, S.P. A322 (1992) 472
Sloan, T., see Beaumont, S.P. A322 (1992) 472
Smith, K., see Sumner, T.J. A322 (1992) 514
Smith, K.M., see Beaumont, S.P. A322 (1992) 472
Solovjanov, V.L., see Baryshevsky, V.G. A322 (1992) 231
Sotthibandhu, S., see Gill, K. A322 (1992) 177
Spadaccini, G., see Grassi, D. A322 (1992) 449
Spiridonov, A.A., see Anykeyev, V.B. A322 (1992) 280
Squillante, M., see Nagarkar, V. A322 (1992) 623
Squillante, M.R., see Lund, J.C. A322 (1992) 464
Squillante, M.R., see Zhang, J. A322 (1992) 499
Squillante, M.R., see Olschner, F. A322 (1992) 504
Squillante, M.R., see Shah, K.S. A322 (1992) 509
Squillante, M.R. and G. Entine, New applications of CdTe nuclear detectors A322 (1992) 569
Stanton, M., see Li, Y. A322 (1992) 116
Stapor, W.J., see Harihar, P. A322 (1992) 40
Stefanini, A., see Conti, M. A322 (1992) 591
Steffens, E., see Düren, M. A322 (1992) 13
Stephen, J.B., see Caroli, E. A322 (1992) 639
Stephen, J.B., see Baldazzi, G. A322 (1992) 644
Stern, I., see Nagarkar, V. A322 (1992) 623
Stock, F., see Düren, M. A322 (1992) 13
Streubel, G., J. Reinhard, B. Hahn and K. Kadner, MOS neutron sensor systems and their possible applications to neutron field investigations A322 (1992) 57
Striganov, S.I., Ionization straggling of high energy muons in thick absorbers A322 (1992) 225

Suffert, M., Silicon photodiode readout of scintillators and associated electronics A322 (1992) 523
Sumner, T.J., S.M. Grant, A. Bewick, J.P. Li, K. Smith and S.P. Beaumont, GaAs revisited as a room temperature X-ray detector A322 (1992) 514
Sushkov, V.V., see Krasnokutsky, R.N. A322 (1992) 34

Tagishi, Y., see Masuda, T. A322 (1992) 135
Tagishi, Y., A. Tomizawa, M. Tomizawa and K. Yagi, Analyzing power standard by use of the reaction ^{7}Li(p, α)^{4}He over an incident energy range from 9 to 22 MeV (*Letter to the Editor*) A322 (1992) 304
Takahashi, H., see Harada, H. A322 (1992) 286
Takasaki, F., M. Utsumi, T. Fukui, Y. Narita, N. Hosoda, T. Hirose and M. Chiba, Performance of a lead–scintillation-fiber calorimeter designed as an active beam shield for the VENUS detector A322 (1992) 211
Tanaka, H., see Nakanishi, T. A322 (1992) 146
Tanaka, J., see Kudomi, N. A322 (1992) 53
Tarlé, G., see Levin, D.S. A322 (1992) 101
Tartoni, N., see Beaumont, S.P. A322 (1992) 472
Tatchyn, R., Off-axis field effects on the output spectra of vertically asymmetric adjustable-phase insertion devices A322 (1992) 126
ten Have, I., see Beaumont, S.P. A322 (1992) 472
Thomas, G., see Glasser, F. A322 (1992) 619
Tiwari, A.N., H. Zogg and S. Blunier, Heteroepitaxial CdTe layers on Si-substrates for radiation sensor arrays with integrated Si-electronics A322 (1992) 352
Tomizawa, A., see Tagishi, Y. A322 (1992) 304
Tomizawa, M., see Masuda, T. A322 (1992) 135
Tomizawa, M., see Tagishi, Y. A322 (1992) 304
Toporkov, D., see Düren, M. A322 (1992) 13
Tsoi, E., see Kavadias, S. A322 (1992) 562
Turnbull, R.M., see Beaumont, S.P. A322 (1992) 472
Tutay, A., see Pausch, G. A322 (1992) 43

Utsumi, M., see Takasaki, F. A322 (1992) 211

van den Berg, L., see Schlesinger, T.E. A322 (1992) 414
van den Berg, L., see James, R.B. A322 (1992) 435
van den Berg, L., Recent developments in mercuric iodide technology at EG&G Energy Measurements, Inc., Santa Barbara Operations A322 (1992) 456
Veltri, M., see Düren, M. A322 (1992) 13
Verger, L., M. Cuzin, G. Gaude, F. Glasser, F. Mathy, J. Rustique and B. Schaub, Electronic properties of chlorine doped cadmium telluride used as high energy photoconductive detector A322 (1992) 357
Verger, L., see Mathy, F. A322 (1992) 615
Verger, L., see Glasser, F. A322 (1992) 619
Vigilante, M., see Grassi, D. A322 (1992) 449
Vinattieri, A., see Beaumont, S.P. A322 (1992) 472
Vistin, L.L., see Buzulutskov, A.F. A322 (1992) 235
von Seggern, H., X-ray imaging with photostimulable phosphors A322 (1992) 467

Wagner, W., see Pausch, G. A322 (1992) 43
Watanabe, T., see Kudomi, N. A322 (1992) 53
Webel, M., see Benz, K.W. A322 (1992) 493
Wheadon, R., see Gill, K. A322 (1992) 177
Wilkinson, D.H., Approximation of the incomplete gamma function; χ^2-tests A322 (1992) 93
Wise, T., see Roberts, A.D. A322 (1992) 6

Xi, H., see Liu, G. A322 (1992) 243
Xu Zizong, Gong Zhufang, Chang Jin, Shi Caoshu, Sheng Dingzhong, Yuan Xianglong and Yin Zhiwen, Studies on decay time of fluorescence from a series of Ce-doped BaF_2 crystals A322 (1992) 239

Yagi, K., see Tagishi, Y. A322 (1992) 304
Yamazaki, Y., T. Kurihara, H. Kobayashi, I. Sato and A. Asami, High-precision pepper-pot technique for a low-emittance electron beam A322 (1992) 139
Yin Zhiwen, see Xu Zizong A322 (1992) 239
Yuan Xianglong, see Xu Zizong A322 (1992) 239
Yurkov, M.V., see Saldin, E.L. A322 (1992) 293

Zadneprovsky, B.I., see Baryshevsky, V.G. A322 (1992) 231
Zapfe, K., see Düren, M. A322 (1992) 13
Zetsche, F., see Düren, M. A322 (1992) 13
Zhan, W., see Liu, G. A322 (1992) 243
Zhang, J., see Lund, J.C. A322 (1992) 464
Zhang, J., K.S. Shah, F. Olschner, J.C. Lund, L.P. Moy, K. Daley, L. Cirignano and M.R. Squillante, An improvement in growing large, oriented lead iodide single crystals for detector applications A322 (1992) 499
Zhang, J., see Olschner, F. A322 (1992) 504
Zhang, J., see Shah, K.S. A322 (1992) 509
Zhigunov, V.P., see Anykeyev, V.B. A322 (1992) 280
Zhou, J., see Liu, G. A322 (1992) 243
Zhu, Y., see Liu, G. A322 (1992) 243
Zibrov, I.P., see Buzulutskov, A.F. A322 (1992) 235
Zichichi, A., see Beaumont, S.P. A322 (1992) 472
Zogg, H., see Tiwari, A.N. A322 (1992) 352

Nuclear Instruments and Methods in Physics Research A322 (1992) 661–665
North-Holland

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH
Section A

Subject index

Accelerators, Beam Handling and Targets

Calculation of pressure profiles in accelerators using a matrix method, M. Michel A322 (1992) 1
Medium field rf transitions for polarized beams of hydrogen and deuterium, A.D. Roberts, P. Elmer, M.A. Ross, T. Wise and W. Haeberli A322 (1992) 6
Test of a polarized hydrogen gas target based on the storage cell technique, M. Düren, Z. Moroz, M. Veltri, K. Zapfe, H. Mairon, M. Metzger, B. Povh, K. Rith, E. Steffens, F. Stock, D. Toporkov, F. Zetsche, T.-A. Shibata, D. Fick, W. Korsch, G. Graw, W. Haeberli and G.T. Garvey A322 (1992) 13
High-precision pepper-pot technique for a low-emittance electron beam, Y. Yamazaki, T. Kurihara, H. Kobayashi, I. Sato and A. Asami A322 (1992) 139
Effect of beam position measurement errors on closed orbit correction in a synchrotron, T. Nakanishi, T. Nakagawa and H. Tanaka A322 (1992) 146
Resonant beam extraction scheme with constant separatrix, K. Hiramoto and M. Nishi A322 (1992) 154
Fundamental processes determining the highly charged ion production in ECR ion sources, G. Shirkov A322 (1992) 161
Generation of self-pulsed multiple charged ions by an XeCl excimer laser, A. Luches, M. Martino, V. Nassisi, A. Pecoraro and A. Perrone A322 (1992) 166

Instruments and Methods for High Energy Physics

Optimization of central particle tracking at future hadron colliders, C. D'Ambrosio, T. Gys, H. Leutz, U. Gensch and S. Schlenstedt A322 (1992) 20
The signal shape of a tower-type ionization calorimeter, R.N. Krasnokutsky, L.L. Kurchaninov, Yu.P. Petukhov, V.V. Sushkov and R.S. Shuvalov A322 (1992) 34
The fluorescent decay of CsI(Tl) scintillator for charged particles of different ionization density (*Letter to the Editor*), T. Masuda, M. Tomizawa, Y. Nagashima, N. Nakamoto and Y. Tagishi A322 (1992) 135
Sensitive region of air proportional counters and its dependence on the pressure, temperature and humidity of filling air, T. Aoyama, T. Sato, H. Muraki and C. Mori A322 (1992) 170
Radiation damage by neutrons and photons to silicon detectors, K. Gill, G. Hall, S. Roe, S. Sotthibandhu, R. Wheadon, P. Giubellino and L. Ramello A322 (1992) 177
Electron identification and the detection of synchrotron radiation with a preshower detector, P. Mélèse, R. Rusack, P. Cushman and V. Singh A322 (1992) 189
Dependence of hadron calorimeter energy resolution on the properties of a wavelength shifter, V.S. Rumyantsev A322 (1992) 207
Performance of a lead–scintillation-fiber calorimeter designed as an active beam shield for the VENUS detector, F. Takasaki, M. Utsumi, T. Fukui, Y. Narita, N. Hosoda, T. Hirose and M. Chiba A322 (1992) 211
Energy resolution for gamma-rays and electrons from ^{207}Bi in liquid Xe doped with TEA, H. Ichinose, T. Doke, A. Hitachi, J. Kikuchi, K. Masuda and E. Shibamura A322 (1992) 216
Ionization straggling of high energy muons in thick absorbers, S.I. Striganov A322 (1992) 225
Single crystals of tungsten compounds as promising materials for the total absorption detectors of the e.m. calorimeters, V.G. Baryshevsky, M.V. Korzhik, V.I. Moroz, V.B. Pavlenko, A.S. Lobko, A.A. Fyodorov, V.A. Kachanov, V.L. Solovjanov, B.I. Zadneprovsky, V.A. Nefyodov, P.V. Nefyodov, B.A. Dorogovin and L.L. Nagornaja A322 (1992) 231
A cerium fluoride scintillator coupled to a FEU-140 photomultiplier (*Letter to the Editor*), P. Kozma, S. Afanasiev, A. Malakhov and A. Povtoreiko A322 (1992) 302

Instruments and Methods for Nuclear Spectroscopy

Nuclear spectroscopy using risetimes in cerussite scintillator, P. Harihar, W.J. Stapor, A.B. Campbell, A.R. Knudson, J. Cutchin and C.C. Blatchley A322 (1992) 40
Particle identification in solid-state detectors by exploiting pulse shape information, G. Pausch, W. Bohne, H. Fuchs, D. Hilscher, H. Homeyer, H. Morgenstern, A. Tutay and W. Wagner A322 (1992) 43

0168-9002/92/$05.00 © 1992 – Elsevier Science Publishers B.V. All rights reserved

Preparation of large and thin source films for studying nuclear rare decays, N. Kudomi, T. Shima, H. Ejiri, J. Tanaka and T. Watanabe A322 (1992) 53
Study of the $KMgF_3$ scintillator radiation damage, A.F. Buzulutskov, G.I. Britvich, V.I. Kochetkov, M.V. Mityagin, L.L. Vistin and I.P. Zibrov A322 (1992) 235
Studies on decay time of fluorescence from a series of Ce-doped BaF_2 crystals, Xu Zizong, Gong Zhufang, Chang Jin, Shi Caoshu, Sheng Dingzhong, Yuan Xianglong and Yin Zhiwen A322 (1992) 239
BaF_2 crystal as forward angle detector in intermediate energy heavy ion reaction research, Guanhua Liu, Zhongyan Guo, Wenlong Zhan, Yongtai Zhu, Xiaoqing Hu, Hongfei Xi, Jianqun Zhou and Enpu Feng .. A322 (1992) 243
Simulation of the neutron and proton transport in the 14 MeV neutron time-of-flight spectrometer, TANSY, M. Hoek, N.S. Garis and G. Grosshög A322 (1992) 248
Analyzing power standard by use of the reaction $^7Li(p, \alpha)^4He$ over an incident energy range from 9 to 22 MeV (*Letter to the Editor*), Y. Tagishi, A. Tomizawa, M. Tomizawa and K. Yagi A322 (1992) 304

Neutron Physics

MOS neutron sensor systems and their possible applications to neutron field investigations, G. Streubel, J. Reinhard, B. Hahn and K. Kadner A322 (1992) 57
Calibration procedure and wavelength correction for neutron depolarization experiments, W. Roest and M.Th. Rekveldt A322 (1992) 65

Computer Automated Measurement and Control

A CAMAC display module for fast bit-mapped graphics, R.E. Abdel-Aal A322 (1992) 78

Nuclear Electronics

Characterization of thin-film superconducting dot arrays for cryogenic particle detectors, R. Leoni, M.G. Castellano, G. Schirripa Spagnolo, P. Carelli and M. Cirillo A322 (1992) 258
A compact ECL system for fast data readout and event building in a multidetector environment, P. Finocchiaro and C. Cafì A322 (1992) 263
An advanced preprocessor for multiparameter experiments (*Letter to the Editor*), M. Brendle and G. Lude .. A322 (1992) 307

Proceedings of the 7th International Workshop on Room Temperature Semiconductor X- and Gamma-Ray Detectors and Associated Electronics (Ravello, Italy, September 23–28, 1991)

Section I. CdTe – material and detectors

Status of semi-insulating cadmium telluride for nuclear radiation detectors, M. Hage-Ali and P. Siffert A322 (1992) 313
Evaluation of CdTe(Cl) crystal growth with THM and application to a multichannel detector, T. Shoji, H. Onabe and Y. Hiratate A322 (1992) 324
A simulation study of a cadmium telluride spectrometer, C. Manfredotti, R. Marchisio and U. Nastasi A322 (1992) 331
Cadmium telluride detectors with thermoelectric cooling, A.Kh. Khusainov A322 (1992) 335
CdTe in photoconductive applications. Fast detector for metrology and X-ray imaging, M. Cuzin A322 (1992) 341
Heteroepitaxial CdTe layers on Si-substrates for radiation sensor arrays with integrated Si-electronics, A.N. Tiwari, H. Zogg and S. Blunier A322 (1992) 352
Electronic properties of chlorine doped cadmium telluride used as high energy photoconductive detector, L. Verger, M. Cuzin, G. Gaude, F. Glasser, F. Mathy, J. Rustique and B. Schaub A322 (1992) 357
Melt growth of CdTe crystals and investigation of their grain boundaries, T.I. Milenov and M.M. Gospodinov A322 (1992) 363
Growth of large CdTe crystals by the Bridgman method, T.I. Milenov and M.M. Gospodinov A322 (1992) 368
Defect equilibrium in semi-insulating CdTe(Cl), P. Höschl, P. Moravec, J. Franc, E. Belas and R. Grill A322 (1992) 371
Thermal annealing of gold deposited contacts on high resistivity p-type CdTe nuclear detectors, S. Mergui, M. Hage-Ali, J.M. Koebel and P. Siffert A322 (1992) 375
Effect of hydrogen on high resitivity p-type CdTe, S. Mergui, M. Hage-Ali, J.M. Koebel and P. Siffert A322 (1992) 381

Section II. HgI_2 – material and detectors

Progress in crystal growth and purification of α-HgI_2, a highly anisotropic detector crystal, M. Piechotka and E. Kaldis A322 (1992) 387

Effect of HgI_2 crystal nonuniformities on gamma-ray response, K. James, V. Gerrish, E. Cross, J. Markakis, J. Marschall and F. Milstein A322 (1992) 390
Polarization and gain in mercuric iodide gamma-ray spectrometers, V. Gerrish A322 (1992) 402
Carrier traps and transport in mercuric iodide, T.E. Schlesinger, X.J. Bao, R.B. James, A.Y. Cheng, C. Ortale and L. van den Berg A322 (1992) 414
The effect of charge trapping on the spectrometric performance of HgI_2 gamma-ray detectors, J.S. Iwanczyk, W.F. Schnepple and M.J. Masterson A322 (1992) 421
A review of recent measurements of optical and thermal properties of α-mercuric iodide, A. Burger, S.H. Morgan, E. Silberman, D. Nason and A.Y. Cheng A322 (1992) 427
Improved technique for HgI_2 crystal growth, H. Hermon, M. Roth and M. Schieber A322 (1992) 432
Photoluminescence investigations of defects introduced during processing of mercuric iodide nuclear detectors, R.B. James, X.J. Bao, T.E. Schlesinger, A.Y. Cheng, C. Ortale and L. van den Berg A322 (1992) 435
Electrical charge transport properties of HgI_2 intercalated with hydrocarbons and/or doped with excess mercury and iodine, H. Hermon, M. Roth and M. Schieber A322 (1992) 442
Preliminary tests on a HgI_2 microstrip detector with analog readout proposed as PSD in a Bragg X-ray spectrometer, D. Grassi, Z. Hu, F. Murolo, E. Perillo, E. Rosato, G. Spadaccini and M. Vigilante A322 (1992) 449
Recent developments in mercuric iodide technology at EG&G Energy Measurements, Inc., Santa Barbara Operations, L. van den Berg A322 (1992) 453

Section III. Other materials for detectors

Thin-film semiconductors: new materials for future detectors, B. Equer A322 (1992) 457
Recent progress in lead iodide X-ray spectrometer development, J.C. Lund, K.S. Shah, F. Olschner, J. Zhang, L. Moy, S. Medrick and M.R. Squillante A322 (1992) 464
X-ray imaging with photostimulable phosphors, H. von Seggern A322 (1992) 467
GaAs solid state detectors for particle physics, S.P. Beaumont, R. Bertin, C.N. Booth, C. Buttar, L. Carraresi, F. Cindolo, M. Colocci, F.H. Combley, S. D'Auria, C. del Papa, M. Dogru, M. Edwards, F. Fiori, F. Foster, A. Francescato, Y. Hou, P. Houston, B. Jones, J.G. Lynch, B. Lisowski, J. Matheson, F. Nava, M. Nuti, V. O'Shea, P.G. Pelfer, C. Raine, J. Santana, I. Saunders, P.H. Seller, I.O. Skillikorn, T. Sloan, K.M. Smith, N. Tartoni, I. ten Have, R.M. Turnbull, A. Vinattieri and A. Zichichi A322 (1992) 472
Study and realization of an amorphous silicon X-ray detector with effective energy sensitivity, C. Manfredotti, F. Faccio, F. Fizzotti and R. Marchisio A322 (1992) 483
Bulk GaAs room temperature radiation detectors, D.S. McGregor, G.F. Knoll, Y. Eisen and R. Brake A322 (1992) 487
X-ray detectors based on semi-insulating GaAs substrate, K.W. Benz, R. Irsigler, J. Ludwig, J. Rosenzweig, K. Runge, F. Schäfer, J. Schneider and M. Webel A322 (1992) 493
An improvement in growing large, oriented lead iodide single crystals for detector applications, J. Zhang, K.S. Shah, F. Olschner, J.C. Lund, L.P. Moy, K. Daley, L. Cirignano and M.R. Squillante A322 (1992) 499
Thallium bromide semiconductor X-ray and γ-ray detectors, F. Olschner, K.S. Shah, J.C. Lund, J. Zhang, K. Daley, S. Medrick and M.R. Squillante A322 (1992) 504
$HgBr_xI_{2-x}$ photodetectors for use in scintillation spectroscopy, K.S. Shah, L.P. Moy, J. Zhang, F. Olschner, J.C. Lund and M.R. Squillante A322 (1992) 509
GaAs revisited as a room temperature X-ray detector, T.J. Sumner, S.M. Grant, A. Bewick, J.P. Li, K. Smith and S.P. Beaumont A322 (1992) 514
Comparison of SB2 X-ray film and reticon array, M. Nail and D. Mazataud A322 (1992) 518

Section IV. Detector related electronics

Silicon photodiode readout of scintillators and associated electronics, M. Suffert A322 (1992) 523
High resolution gamma ray spectroscopy with CdTe detector systems, M. Richter and P. Siffert A322 (1992) 529
High resolution X-ray spectroscopy with silicon drift detectors and integrated electronics, G. Bertuccio, M. Sampietro and A. Fazzi A322 (1992) 538
Low noise, low power, miniaturized processing electronics for X-ray detectors, J.S. Iwanczyk A322 (1992) 543
The Pentafet and its applications in high resolution and high rate radiation spectrometers, T. Nashashibi A322 (1992) 551
Large volume HgI_2 counters. A novel technique for pulse discrimination , P. Olmos, G. Garcia-Belmonte and J.M. Perez A322 (1992) 557
On the equivalent circuit model of reverse biased diodes made on high resistivity substrates, S. Kavadias, K. Misiakos, D. Loukas and E. Tsoi A322 (1992) 562
Low-noise electronics for semiconductor detectors, V.V. Gostilo A322 (1992) 566

Section V. Applications

New applications of CdTe nuclear detectors, M.R. Squillante and G. Entine A322 (1992) 569
Overview of the use of CdTe detectors for the verification of nuclear material in nuclear safeguards, R. Arlt, K.-H. Czock and D.E. Rundquist A322 (1992) 575

The use of a mercuric iodide detector for X-ray fluorescence analysis in archaeometry, R. Cesareo, G.E. Gigante, J.S. Iwanczyk and A. Dabrowski ... A322 (1992) 583
Use of the EGS4 Monte Carlo code to evaluate the response of HgI_2 and CdTe detectors for photons in the diagnostic energy range, M. Conti, A. Del Guerra, D. Mazzei, P. Russo, W. Bencivelli, E. Bertolucci, A. Messineo, V. Rosso, A. Stefanini, U. Bottigli, P. Randaccio and W.R. Nelson ... A322 (1992) 591
Current state-of-the-art applications utilizing CdTe detectors, Y. Eisen ... A322 (1992) 596
CdTe detectors in medicine: a review of current applications and future perspectives, C. Scheiber and J. Chambron ... A322 (1992) 604
Application of GaAs and CdTe photoconductor detectors to X-ray flash radiography, F. Mathy, M. Cuzin, J.J. Gagelin, R. Mermet, B. Piaget, J. Rustique, L. Verger, A. Hauducoeur, P. Nicolas, L. Le Dain and M. Hyvernage ... A322 (1992) 615
Application of cadmium telluride detectors to high energy computed tomography, F. Glasser, G. Thomas, M. Cuzin and L. Verger ... A322 (1992) 619
CdTe detectors in nuclear radiation dosimetry, V. Nagarkar, M. Squillante, G. Entine, I. Stern and D. Sharif ... A322 (1992) 623
A 90 element CdTe array detector, Y. Iwase, M. Funaki, A. Onozuka and M. Ohmori ... A322 (1992) 628
A HgI_2 X-ray instrument for the Soviet Mars '94 mission, T.E. Economou, J.S. Iwanczyk and R. Rieder ... A322 (1992) 633
A CdTe gamma-ray spectrometer with imaging capabilities for astrophysics: Monte Carlo simulation results, E. Caroli, G. Baldazzi, G. Di Cocco, A. Donati, W. Dusi, G. Malaguti, M. Rossi and J.B. Stephen ... A322 (1992) 639
An evaluation of the possible use of CdTe microdetectors for astrophysical, biomedical and industrial imaging, G. Baldazzi, D. Bollini, E. Caroli, F. Casali, P. Chirco, G. Di Cocco, A. Donati, W. Dusi, G. Landini, G. Malaguti, M. Rossi and J.B. Stephen ... A322 (1992) 644

Numerical and Data Analysis

A fast algorithm for Monte Carlo simulations of multiple Coulomb scattering, S.E. Kuhn and G.E. Dodge ... A322 (1992) 88
Approximation of the incomplete gamma function; χ^2-tests, D.H. Wilkinson ... A322 (1992) 93
Sampling and optimum data processing of detector signals, G. Bertuccio, E. Gatti, M. Sampietro, P. Rehak and S. Rescia ... A322 (1992) 271
Correcting factors method as an unfolding technique, V.B. Anykeyev, A.A. Spiridonov and V.P. Zhigunov ... A322 (1992) 280

Fusion

Incineration of ^{90}Sr and ^{137}Cs by an inertial fusion target, H. Harada, H. Takahashi, K. Konashi and N. Sasao A322 (1992) 286

Dosimetry, Space Radiation and Medical Applications

On self-supporting coded aperture arrays, K. Byard ... A322 (1992) 97
GRACE: a prototype for the Gran Sasso Air Cherenkov Experiment, D.S. Levin, B.C. Barish, E. Diehl, A. Habig, J. Handel, M. Kertzman, S. Mufson, J. Musser, S. Nutter, G. Sembroski and G. Tarlé ... A322 (1992) 101
Characterization of a SIT vidicon X-ray detector for crystallography, Y. Li, W.C. Phillips, M. Stanton and K. Kalata ... A322 (1992) 116
Responses of TLD-700 dosimeters shielded by various neutron absorbers in a mixed neutron/photon field (*Letter to the Editor*), B.J. McParland and M. Munshi ... A322 (1992) 308

Synchrotron Radiation Research

Off-axis field effects on the output spectra of vertically asymmetric adjustable-phase insertion devices, R. Tatchyn ... A322 (1992) 126
Mode theory of FEL oscillator with the open plane Fabry–Perot resonator, helical undulator and axisymmetric electron beam, E.L. Saldin, E.A. Schneidmiller and M.V. Yurkov ... A322 (1992) 293

Letters to the Editor

The fluorescent decay of CsI(Tl) scintillator for charged particles of different ionization density, T. Masuda, M. Tomizawa, Y. Nagashima, N. Nakamoto and Y. Tagishi ... A322 (1992) 135
A cerium fluoride scintillator coupled to a FEU-140 photomultiplier, P. Kozma, S. Afanasiev, A. Malakhov and A. Povtoreiko ... A322 (1992) 302

Analyzing power standard by use of the reaction $^{7}Li(p, \alpha)^{4}He$ over an incident energy range from 9 to 22 MeV, Y. Tagishi, A. Tomizawa, M. Tomizawa and K. Yagi A322 (1992) 304
An advanced preprocessor for multiparameter experiments, M. Brendle and G. Lude A322 (1992) 307
Responses of TLD-700 dosimeters shielded by various neutron absorbers in a mixed neutron/photon field, B.J. McParland and M. Munshi A322 (1992) 308

Book review

New books A322 (1992) 137